

OREGON TUALATIN VALLEY AMATEUR RADIO CLUB



An ARRL Special Service Club

January 1990

Next Meeting January 10, 1989

Club Repeater for OTVARC?

By John Koenig, NB7W

Oh-Oh, I've been thinking again....

I want to let everyone in the Club know what I think a new repeater could do for OTVARC. I hope to stimulate some new thinking, maybe even some controversy.

In my early days as an Amateur Radio operator OTVARC members used the '32 repeater almost every evening. We met on the repeater to discuss club activities and Ham Radio in general. The activity on the repeater really got me going in Ham Radio. It was fun!

In those days repeater use from outside the area was light and auto patch use was much less than today. Most of the activity was stuff I wanted to listen to. Back then use of the '32 repeater served the purpose of promoting OTVARC activities and bringing OTVARC members together on the air. Our use of the '32 machine was one of the main reasons for the rapid growth of the Club.

Over the years the Club has used the repeater less and less. I am not sure why this is true for others, but for myself I grew tired of auto patches and of hearing long winded QSO's from Hams I don't know from outside our area. If the fun has gone out of two meter operating for you do you know why?

A year ago I suggested to the OTVARC board that we consider a Two Meter repeater as a Club project. The suggestion was not received well. I think the idea has merit and I wanted to express my thinking to the general club membership so that you will think about this and pass judgement for yourself.

I have heard a lot of arguments against the Club doing a

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NOTICE

A SPECIAL ELECTION WILL BE HELD
AT THE JANUARY CLUB MEETING TO
ELECT A NEW VICE PRESIDENT

SEA-PAC 1990

By Ken Hart, N7JAS

Circle June 1, 2 and 3 on your calendars! Those are the dates for the Northwest's Amateur Radio event of the year, Sea-Pac 1990 Ham Convention at Seaside, Oregon. OTVARC again will have the privilege and responsibility of being host to this premier event. Co-Chairmen for SEA-PAC this year will be Jim Schaeffer, KB7ADH and Ken Hart, N7JAS.

To continue in the fine tradition of previous years and to improve for the future requires the support and dedication of all OTVARC members. We look forward to putting on this HAM Party for the Amateur Radio family and, in return, it helps support many service and charitable efforts that an active club like OTVARC provides throughout the year. If you have enjoyed this event in the past, or are new to the club, and would like to contribute we extend a warm welcome to join us.

One of our goals is to enlist as many helpers as possible so that no one has to work extended hours. There are many positions still open and we will give you an opportunity to ask questions and choose the committee that suits your talents at the January meeting. If you'd like to contact us directly a list of the key committees follows:

Co-Chairmen

KB7ADH	Jim Schaeffer	245-2518
N7JAS	Ken Hart	649-6908

Exhibitors:

WB7SIC	Al Berg	640-5456
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Registration:

KA7RFD	Lorna Campbell	297-1175
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Printing and Advertising:

WR7D	Ken Gilbert	292-3497
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Prizes:

K7WWG	Wes Allen	649-3295
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Security:

K7PSD	Darwin Durr	646-5910
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Seminars:

KB7DLZ	Phillip Weaver	643-3727
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Flea Market:

KA7HOJ	Jack Smithson	646-1873
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Talk-in and Information Booth:

KA7ICV	John Klein	281-0798
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Casino Night:

K7VDQ	Ray Deeth	324-4502
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Awards:

N7EPE	Susan Benson	640-1989
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Secretary's Report December 1989

By Steve Coan, KA7MOW

Hopefully this will be a continuing column to keep the membership informed of the club activities. Especially those who can not attend the regular general meetings held the second Wednesday of each month at the Elks Club Lodge in Beaverton Oregon.

First I would like the membership to know that OTVARC has once again succeeded in retaining our Special Service Club status from the ARRL. I would also like to encourage the non ARRL membership to join through the club. By joining through the club, via the treasurer, the club gets to keep a portion of the fees to go into our coffers. I have a list of members who have dropped their ARRL affiliation, and I will be sending letters to encourage them also to renew their memberships.

Now for some club statistics. We currently number 224 members. A breakdown of the membership follows:

224 Total members

48 Life members

40 Family members

2 Associate members

34 new membership numbers issued this year

(Some are old members renewing late. Remember if you don't renew on time you lose your old number!)

149 ARRL Members

22 Life memberships

127 regular memberships

December Board Meeting Minutes for December 6, 1989

A. A joint meeting was held with the current board and candidates to acquaint possible future board members with the current activities

B. Treasurer covered the 1990 budget including where the savings are and the various club funds (e.g. trailer fund, Scholarship fund, etc.)

C. Scholarship report

1. Committee needs two more members to help fulfil this function

2. Sue Benson (past treasurer) will become a regular member rather than be the boards liaison person

D. Ray Deeth visited with the current P.C.C. Novice class to tell them about the scholarship plans to help new novices pay for their course.

E. Note that Greg Milnes will not be able to M.C. the Holiday Festival.

F. Field Day

1. Dee Lynch (KA7NPN) and Terry Biggs (WB7CHK) are NOT going to be available to help this year on field day setup and tear down.

2. The club is currently looking for volunteers to aid in this effort - locating antennas, radios, and necessary equipment to enable the club to participate in field day.

3. The Travelers (RV Group) will host the Friday night Hot Dog Feast, and the Saturday night Pot-Luck dinner.

G. Janet Bell (WB7FJC) tendered her resignation as Vice President to the club. This was due to a promotion at her work that would leave less time to full the duties of Vice President.

December Holiday Festival Meeting minutes - brief OTVARC General Meeting - December 18, 1989

I. Holiday Festival meeting

II. Joe from Portland Radio brought along some items for door prizes

III. Rush Drake had a severe heart attack

IV. NEWS FLASH - Amateur Radio fees have been deleted from the [federal] budget.

V. Cascade Tower has a tower that was ordered.

A. If you had a tower on order, contact Ray Deeth for further information

VI. Amateur Radio is holding their DX convention in Portland next year.

VII. Talent Show - from the club

VIII. Election Results

A. Trustees for 1990

1. Al Berg WB7SIC

2. Lynn Hurd WB7UNU

3. Marty McKillip KD7LA

4. John Koenig NB7W

5. Greg Milnes W7AGQ

B. Treasurer

Ken Gilbert WR7D

C. Secretary

Steve Coan KA7MOW

D. Vice President

Not decided - Special election in January

E. President

Ray Deeth K7VDQ

IX. Note that a special election will be held at the January meeting to elect a new Vice President.

A. Currently only Rick Shouweiler - KA5OLH - has agreed to be on the ballot

B. The Election committee will attempt to find another candidate prior to the next meeting.

*(Club Repeater for OTVARC?
Continued from page 1)*

repeater project, but I always come up with solutions. Some of them comments are:

"The Idea is stupid because we don't know how much purchasing and operating a repeater costs both in money and in time."

It does cost money to own and operate a repeater, especially if the repeater is on a high mountain top, has an auto patch, is linked to other repeaters, and so fourth. I am suggesting that we need a low power local coverage machine, not one with a huge coverage area or an auto patch. ARRG has such a system we can all use; we don't need to duplicate it.

We must weigh the value of a repeater against it's cost. I checked with local private repeater owner/operators and they think owning a repeater is well within the means of OTVARC. This is especially true if we continue to sponsor the Sea-Pac convention. OTVARC members have earned almost \$10,000 working at the ARRL National and Sea-Pac conventions. A repeater is something we could all use every day that would pay us back for our hard work.

"What is wrong with the ARRG? Why can't we use the ARRG repeaters?"

Absolutely nothing is wrong with ARRG, a lot of things are right. ARRG goals seem to be to develop a high quality, large coverage, multiple band repeater system; they sponsor it from the contributions of their membership. They have done a fantastic job and they have shared with us all a system that is truly outstanding in its performance and coverage. Because it is so outstanding, the ARRG system is also very popular, and very busy. The OTVARC repeater would compliment the ARRG system, and not compete with it.

The ARRG system does not address the daily communication meets of this club as our own repeater would. It is not in ARRG's interest to do so. We need a local area coverage 2 meter repeater that we would use to communicate for fun and not be interrupted by auto patches or out of area QSOs. Ideally the OTVARC repeater would be portable for use during emergencies or public service events.

"Why do we need a repeater at all?"

Our Club has grown very diversified over the years and at this point in time we do not have any way to coordinate and draw together the Club activities except the monthly meeting. A repeater would attract interest to the club

activities across the spectrum from the travelers to the contesters. A repeater would allow us to easily communicate with each other, and monitor club activities. It would bring us all closer together, and therefore strengthen the Club.

"Club members don't monitor 28.456 Mhz, what makes you think they will monitor a repeater?"

We can't carry an HF rig on our belts, and most of us don't have 10 meter rigs in our cars. It will be much easier on two meters. It will work.

"Not everyone in the Club will be able to use a local area repeater."

The majority would benefit from a repeater. Those who would not and object to the club operating a repeater should make their wishes known to the OTVARC board.

"There are no longer any repeater frequencies available on two meters."

This is indeed true, however now is the time to apply for a repeater frequency pair. Eventually we would get our frequencies.

This problem leads us to an interesting solution. We could approach some of the local repeater owner/operators and offer to work together. We would find an owner that would grant us primary use of their repeater for a donation toward the operation cost of the machine. This way we would test the theory that a repeater would benefit the Club with no risk to the Club; any money spent would go into Amateur Radio. If after a suitable period, say one year, the Club showed little interest we would terminate our agreement. If it did work well we would continue the relationship.

In summary the Club would put a local coverage repeater to good use. A repeater would have a positive effect of bringing club members together on the air and therefore increasing the participation in OTVARC activities; a certain amount of our earnings from Sea-Pac could be put towards the use of a repeater with no long term risk to the Club.

Take time to think about this. Do you think the Club would be more fun or better if we had a repeater? Please let the OTVARC board know how you feel.

FOR SALE

Apple 2 Plus computer, 64K memory, Green monochrome monitor, 5 1/4 inch floppy disk drive. \$300.00 or best offer. Mike Durr, 646-5910, KA7PWZ. Call after 6 P.M.

Hamming it up on the Water, From Point Hudson Harbor

By Bill, WC7P, and Elaine, KB7ANT

To our friends at OTVARC,

I suppose that the end of a year gets folks to looking back on the year past. So it is with Elaine & I. We haven't made a meeting since moving SKYE up north, and I'm afraid there isn't much chance soon. As you may remember, SKYE, our 32 foot cutter is our new home -- and where ever she is, home is! Now that we've lived on the water for a year, we can say a bit more about how hamming is on the water.

First, we had to give up close contact with our OTVARC friends and replaced them with a new group of hams. Needless to say they are boaters. Now that I think back, most of our boater friends are also hams. First we started checking into the Port Ludlow Y.C. Boaters Net. (daily, 3865 kHz, 0830 local) From there we met more folks and on it went.

In the spring we headed north. On our way we stopped in Nanaimo, B.C. and had a couple of hours with Bill, N7KTZ. Bill also checks in on the above mentioned net, but on this meeting, he mentioned a 2M boater's net. Elaine decided that would be "her" net. That net turned out to be the B.C. Boater's net run by VE7GBT (the Great Brown Tiger of Thetis Island, B.C.) This net meets on the Saltspring Island repeater (147.32 Mhz). As you know, all nets have their own "flavor". So it is with boater's nets. The HF net is a bunch of guys that get together once a week in the winter for lunch and meet each other in strange and wonderful places each summer as they cruise north into Desolation Sound, Queen Charlotte Islands or Alaska. GBT, (Les), runs the more classic net where he keeps track of folks and worries about them if they don't check in, etc.

Normally the B.C. Boaters Net strings together a couple of repeaters up the east coast of Vancouver Island. and gets coverage that way. (they are part of the Evergreen Intertie). But this year the locals up in Campbell River and north didn't see why their repeaters should be tied up so much and pulled out of the intertie. In true ham tradition Les didn't slow down at all. Even though he had up to 60 checkins in the summer, he set up another reporting net on HF. Our furthest point north was the Drew Harbor area. that is just across Quadra Island from Cambell River. so for those boats that did not have HF on board, Elaine was their net control for checkin on the Campbell River repeater. She then got on HF and relayed the checkins back to Les.

Of course, in the process of all of this we got to know a lot more people. Whenever some of us were near each other during our summer cruise, we would almost always go out of our way to meet. John on WISHING STAR (WX7J), Joe on VILISTAR (AL7IK), bill on GLORY ROAD (N7KTZ) and a few more. John (WX7J) cruised around Vancouver Island with Gordon (N7HBO) of ALEGRE and OTVARC.

By the way, Gordon (N7HBO) is wintering in the Sacramento River delta area. He was there for the earth quake, and says that the water transmits the shock just fine, but does not cause damage. Our winter will be spent in the Port Townsend area. It's kind of our home away from home. Our schedule for next year is to cruise north again, and see more of the Pacific NW waters. At this time next year we will be thinking more about where next.

So what is Ham Radio like after a year on the water? I still miss the public service events and the people. There is less time for hamming because of all of the rest of the things that have to be done. However, it's the only way to reliably communicate with friends and relatives. We have a weekly schedule with Elaine's Dad & Mom, Bob (KF7SO) & Bea (KB7HFL) as well as Greg (KF7BW). How about equipment? We have a Yaesu FT757GX with a Nye Viking tuner driving a wire parallel with the water that goes out to the stern, then 42 feet up to the mast in parallel with the backstay. The wire is physically parallel with the backstay, but not electrically parallel (other than by coupling). The nice thing about it all is that we seem to have the best signal of the whole group.

Our 2M setup is a pair of Yaesus, a FT727 and a FT23. In the boat we drive the RFE 30W linear to a vertical 1/2 wave at the 30 foot level on the mast. We use the 2M mostly for talking to one another when one of us is not on the boat. However, when we were up north, we were able to reliably get into the Saltspring Island repeater from as far away as Powell River, so the little linear is handy to have even up there.

So I guess the answer to it all is that Hamming on this boat is different, yet the same. Different in that we move around too much to do any public service work, yet we meet the same great people. For the winter I hope to get back to my personal first love, CW. I had a regular schedule with WX7J and N7HBO last summer, but -- it was just about at sunset --- and --- well, you know, up north the sunsets are pretty special ---.

Our best to you all,
Bill WC7P
Elaine KB7ANT
S.V. SKYE

OTVARC Travelers Notice

By Dave, N7WL

The January campout location has been changed from Champoege State Park to ISBERG RV Park. It is located about 1/4 mile east of I-5 at exit 278. The rates are \$14 for full hookup, \$10 for dry camp.

Everyone will need to make their own reservations. The phone number for the park is 678-2646. The park has a nice recreation hall which I will reserve for us.

Please make reservations ASAP as the number of spaces available with full hookups are limited. More details at the January meeting, or if you wish contact me by phone.

Twas The Night after Christmas:

Its ten days past Christmas
And here at the shack
I've been hearing a 3Y
Under constant attack

The boys up the band
With the slow scanning bleeps
Are upset and furious
With all of the creeps

The phone cops, the jammers
The one's from Brazil
Canadians and Yankees
Have all had the thrill

On 8 land, on zero's
QSL, I have you
On 8 land, on zero's
QSL, I have you
HEY DUMMY ! HEY STUPID !
The wrong VFO

You're out of the band !
Charlie Victor, again ?
Your five nine, I have you
QRM , QRM

Appeared on the Frankford Radio Club Packet Cluster System, courtesy of N2GST.

Head Set TX Switch

By Jeff Durr, KA7AKU

Some people like speaker mics, some like head sets. I have one of both for my Yeasu hand held. I like using the head set at Sea-Pac, it keeps my hands free for my clip board and pen while I boss around everyone at the flea market. I wear the radio in the middle of my back hanging on my belt.

But this creates a problem when I do have to transmit. I have to reach around and hit the transmit button. My radio does have a VOX built in, but as we all know, the noise level at the convention makes this useless.

I figured I should build a TX switch I could hook on my belt up front. My speaker mic has one, it shouldn't be too hard. But I was puzzled. The speaker mic had two miniture phone plugs, just like the head set. Let's see, two contacts for the speaker, two contacts for the mic, Hey! I'm out of contacts. How do they do it?

Out came the screw driver, and open went the speaker mic. After a little reverse engineering, I figured out that they place a 2.2K Ohm resistor across the mic input when you push the mic button. Simple enough.

So to make a couple of evenings of work fit into a paragraph or two, I found a switch housing on an old broken head set, spliced in the switch and resistor, and gave it a try. Sure enough, technology wins again.

Keep in mind this is for a Yeasu FT-209 hand held, but I'm sure the other radios have either a seperate input or a similar keying method. Get out your soldering irons and build yourself a TX switch some rainy evening.

Have fun!

AMATEUR RADIO RELAY GROUP INC.

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Mount Hood

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NASA Frequencies

Written by John Magliacane, KA2QHD
Condensed by Jeff Durr, KA7AKU

I was looking through my mail the other day and came across some interesting information. I found a newsletter called SpaceNews, written by John Magliacane, KA2QHD.

It contained some information on NASA, the space shuttle, and radio. Since I am interested in all three, I thought some reader of the OTVARC newsletter might also find this information useful. If you have a general coverage receiver, you might pick up some of the NASA radio traffic. Has anyone ever done this?

Here is the information I thought would be of interest:

John Magliacane, KA2QHD
SpaceNews 01-Jan-90
NJBulletin ID: SPC00101
MONDAY JANUARY 1, 1990

STS-32 LAUNCH

The latest word from NASA indicates that the launch of Shuttle mission STS-32 will occur no earlier than January 8, 1990.

SHUTTLE MISSION FREQUENCIES

Shuttle Communications (UHF-AM)

243.000 MHz Standard military aircraft emergency frequency
259.700 MHz Air-to-ground or suit-to-orbiter
279.000 MHz Suit-to-orbiter or suit-to-suit
296.000 MHz Primary UHF downlink
296.800 MHz Air-to-ground or orbiter-to-suit

S-Band Microwave (Wideband FM)

Air-to-Ground : 2205.0, 2217.5, 2250.0, 2287.5 MHz
Ground-to-Air : 2041.9, 2201.4 MHz

2287.5 MHz: Primary digital downlink

2250.0 MHz: Main engine analog telemetry during launch or TV during orbit operations.

The voice downlinks employ digital slope delta modulation and are multiplexed with orbiter telemetry. Downlink TV is wideband FM.

NASA Malabar (Palm Bay) HF Networks in MHz

2.405 Data Buoys
2.622 SRB Recovery (Primary)
2.664 Backup Mission Audio-Cape/Hou
2.678 ETR Range Control
2.716 Navy Harbor Cntl-Port Canav.

2.764 SRB Recovery Channel
3.024 Coast Guard SAR (Primary)
3.187 SRB Recovery Ships Channel
4.376 Primary Recovery Zone SAR
4.510 SRB Recovery Ships Channel
4.856 Cape Radio/Leader
4.992 Cape Radio/Coast Guard Ships
5.180 NASA Tracking Ships
5.187 NASA Tracking Ships
5.190 ETR Primary Night Channel
5.350 Launch Support Aircraft
5.680 Launch Support Ships
5.810 ETR Secondary Night Channel
6.720 SAR Primary Atlantic
6.896 Cape Radio
6.837 Cape Radio
7.412 SAR Communications with Bahamas
7.461 Cape Radio/Launch Support A/C
7.525 NASA Ground Tracking Net
7.676 Launch Support Aircraft
7.765 SRB Recovery Ships
7.919 Data Channel
7.985 Data Channel
9.022 Launch Support Aircraft
9.043 Launch Support Aircraft
9.132 Launch Support Aircraft
10.305 Space Missile Tactical Net
10.310 Malabar-to-Ascension Is-MUX
10.780 ETR Primary Day Channel
11.104 Launch Support Ships
11.252 Launch Support Ships
11.407 SRB Recovery Ships
11.414 Cape Radio
11.548 Cape Radio
11.621 SRB Recovery Ships
13.227 Launch Support Aircraft
13.237 Data Channel
13.495 Data Channel
13.600 Malabar-to-Ascension Is-MUX
13.878 Launch Support Aircraft
14.937 Ascension Is-to-Malabar-MUX
18.009 Launch Support Ships
19.303 Launch Support Ships
19.640 Cape Radio
19.966 Ascension Is-to-Malabar-MUX
20.186 Launch Tracking Net
20.192 Malabar-to-Ascension Is-MUX
20.198 OCC Shuttle Mission Audio
20.390 ETR-Secondary Day Channel
22.755 Ascension Is-to-Malabar-MUX
23.413 Cape Radio
27.065 NASA CB Radios

HF USED AT THE KENNEDY SPACE CENTER :
2.182 MHz, 3.023 MHz

Upcoming Events 1990

January 10	OTVARC Club Meeting Beaverton Elks Club
January 19, 20	OTVARC Travelers Campout ISBERG RV Park
February 7	OTVARC Board Meeting
February 14	OTVARC Club Meeting Beaverton Elks Club
February 16, 17	OTVARC Travelers Campout Cape Kiwanda
March 7	OTVARC Board Meeting
March 14	OTVARC Club Meeting Beaverton Elks Club
March 16, 17	OTVARC Travelers Campout (To be announced)
April 20, 21	OTVARC Travelers Campout Neskowin
May 18, 19	OTVARC Travelers Campout Memaloose
June 1, 2, 3	SEA-PAC Convention Seaside, Oregon
June 15, 16	OTVARC Travelers Campout Field Day Site
July 20, 21	OTVARC Travelers Campout (To be announced)
August 17, 18	OTVARC Travelers Campout Beaver Bay
September 14, 15	OTVARC Travelers Campout Fort Stevens State Park
October 19, 20	OTVARC Travelers Campout (To be announced)
November 16, 17	OTVARC Travelers Campout Depoe Bay (Thanksgiving)

Please notify the editor of upcoming activities or events so all club members can be informed. There is a 24 hour a day answering machine at 649-6832. Use it.

OREGON TUALATIN VALLEY AMATEUR RADIO CLUB

Executive Board

Feel free to contact the Board of OTVARC to answer any questions you may have on anything.

President:	Ray Deeth	K7VDQ	324-4502
Vice Pres:	<i>(To be elected at the January Meeting)</i>		
Secretary:	Steve Coan	KA7MOW	646-5271
Treasurer:	Ken Gilbert	WR7D	
Trustee:	Al Berg	WB7SIC	640-5456
Trustee:	Lynn Hurd	WB7UNU	
Trustee:	Marty McKillip	KD7LA	
Trustee:	John Koenig	NB7W	641-3575
Trustee:	Greg Milnes	W7AGQ	

Other Club Contacts

Club Emergency Services Coordinator:

Chris Black N7MWL 697-3076

Club Trailer / Club Equipment / Technical:

Dee Lynch KA7NPN 646-4580
Terry Biggs WB7CHK 648-3687

Contests:

John Koenig NB7W 641-3575

Health and Welfare:

Al Berg WB7SIC 640-5456

Public Service:

Randy Stimson KZ7T 297-1175

Newsletter:

Jeff Durr KA7AKU 649-6832

The OVARC NEWSLETTER is published monthly by the Oregon Tualatin Valley Amateur Radio Club, Inc. The opinions, views and recommendations of its contributors are not necessarily those of the Club, its officers, advertisers or the Editorial Staff. Articles or letters may be submitted to:

Jeffrey A. Durr, KA7AKU, Editor,
20320 S.W. Clarion Street
Aloha, Oregon 97006.

Deadline for all newsletter material is the 25th of the preceding month.

Meetings are held on the second Wednesday of each month at the Beaverton Elks Lodge, 3500 S.W. 104th Avenue, Beaverton, Oregon. Meetings begin at 7:00 P.M. following a buffet dinner served at 6:15 P.M.

All correspondence other than for this newsletter should be sent to: Oregon Tualatin Valley Amateur Radio Club, Post Office Box 5132, Aloha, Oregon 97006-0132.

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